

## ABSTRACT

A counterfeit detection device that is useful for optically examining the security features of currency to determine its authenticity. The apparatus places the currency at the object plane of a magnifying lens suitable for enlarging the image of the microprinting as well as examining other fine features of the bill. In one embodiment, the device consists of a rear illuminating light source a bill positioning slot a magnifying lens, and an environmental light shade. Further embodiments include a capability of front illumination to detect the color shifting ink, an ultraviolet light source causal to viewing the phosphorescent glow of the polyester thread with its identifying color. And finally, a version with a swing-away lens to view the watermark unmagnified.

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